(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number
WO 2004/112216 A1

(51) International Patent Classification[7]: H02J 17/00, B25J 19/00

(21) International Application Number: PCT/SE2004/000878

(22) International Filing Date: 4 June 2004 (04.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0301786-0 16 June 2003 (16.06.2003) SE

(71) Applicant *(for all designated States except US)*: **ABB AB** [SE/SE]; Kopparbergsvägen 2, S-SE-721 83 VÄSTERÅS (SE).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **SCHEIBLE, Guntram** [DE/DE]; Holunderweg 5, DE-69493 HIRSCHBERG (DE). **DILGER, Berthold** [DE/DE]; Kastellweg 9, DE-69120 HEIDELBERG (DE). **LUTHARDT, Colin** [DE/SE]; Ålgatan 5, S-SE-723 49 VÄSTERÅS (SE).

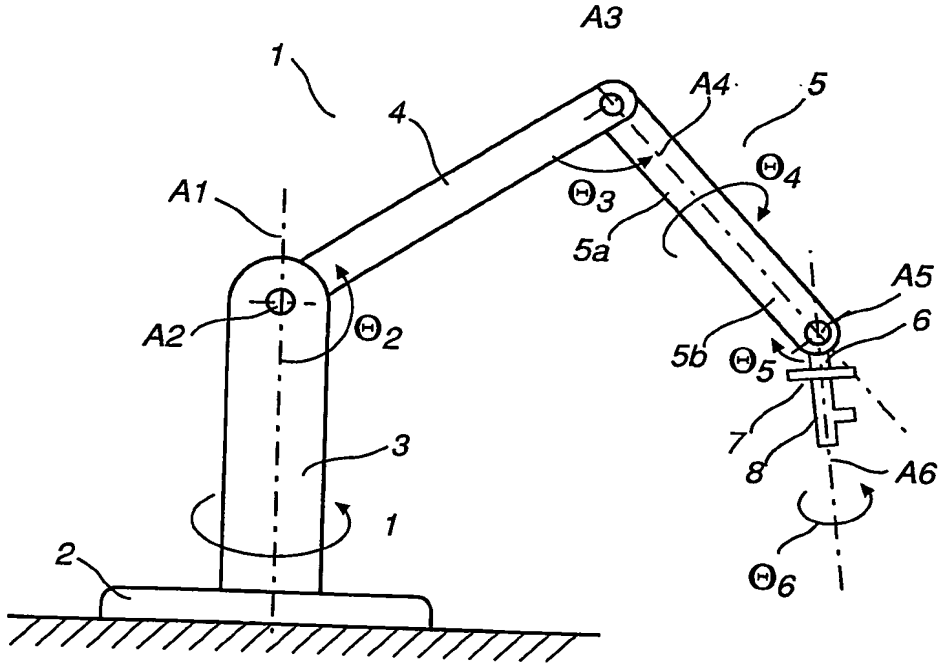
(74) Agent: **ABB AB**; Legal & Compliance / Intellectual Property, Forskargränd 8, S-721 78 VÄSTERÅS (SE).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: INDUSTRIAL ROBOT



(57) Abstract: A power supply system for an industrial robot (1), comprising a transmitting part (11) including a first coil (14) and a first converter (13) for producing an alternating magnetic field from the first coil, and a receiving part (12) comprising a second coil (15) for providing an alternating current by induction from the alternating magnetic field and a second converter (16) for producing from the alternating current a direct current for providing power to a tool (8) carried by the robot.

WO 2004/112216 A1

SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.